## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claims 1-19 (cancelled).

- 20. (Currently amended) A reactor for pyrolytic conversion of biomass material into charcoal and gas comprising, a housing having a proximal end, a distal end and a sealable opening for receiving a removable canister containing said material;
- a heater at said distal end located within said housing such that biomass material within said canister is ignitable to form a flame front only by heating with said heater at said distal end;
- a first valved gas exit orifice at the proximal end of said housing; a second valved gas exit orifice at the distal end of said housing;
- a valved air entry orifice for introducing air to the proximal end of said canister <u>comprising a</u> <u>tube passing through the distal end of said housing and having an open end at the proximal end of said canister;</u>

insulation surrounding at least a portion of the sides of the canister;

said canister being receivable in said housing such that there is minimal exposure of the contents of said canister to the atmosphere when said sealable opening is open.

- 21. (Previously presented) A reactor according to claim 20 wherein said heater comprises a resistance heater.
- 22. (Original) A reactor according to claim 20 further comprising an exterior burner communicating with said second valved gas exit.
  - 23. (Cancelled)
- 24. (Original) A reactor according to claim 20 wherein said housing is vertically positioned so that said proximal end is at the top and said distal end is at the bottom.